

AMENDMENT

Please amend the above-identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

B1
Claim 1 (currently amended): An ~~acid bath for the~~ electrodeposition bath ~~of for~~ depositing glossy gold and gold alloy layers, ~~comprising containing~~ gold and ~~optionally one or more alloy elements in dissolved form and also~~ at least one organic compound as a gloss additive ~~selected from the group consisting of~~ pyridine-3-sulfonic acid, nicotinic acid, nicotinic acid amide, 3-(3-pyridyl)-acrylic acid, 3-(4-imidazolyl)-acrylic acid, 3-pyridylhydroxymethanesulfonic acid, pyridine, picoline, quinolinesulfonic acid, 3-aminopyridine, 2,3-diaminopyridine, 2,3-di-(2-pyridyl)-pyrazine, 2-(pyridyl)-4-ethanesulfonic acid, 1-(3-sulfopropyl)-pyridinium betaine, 1-(3-sulfopropyl)-isoquinolinium betaine and salts or derivatives thereof, wherein ~~characterised in that, the bath contains further~~ comprises, as a further ~~an additional~~ gloss additive, ~~which has~~ at least one compound of the general formula



(I)

in which

m is the number 3 or 4, and

R represents a straight-chain or branched or cyclic alkyl group with up to 20 carbon atoms, ~~and, in the event that m = 4, also or~~ an aryl or heteroaryl group with up to 10 carbon atoms, ~~which may be~~ optionally substituted once or several times with straight-chain or branched alkyl groups with 1 to 14 carbon atoms.

Claim 2 (currently amended): An electrodeposition bath according to Claim 1, ~~characterised in that, it contains wherein~~ as a further ~~the additional~~ gloss additive ~~contains~~ at least one compound of the ~~general~~ formula I in which R is a straight-

chain or branched alkyl group with 5 to 12 carbon atoms, ~~preferably a branched alkyl group with 6 to 10 carbon atoms.~~

Claim 3 (currently amended): An electrodeposition bath according to Claim 1, ~~characterised in that, it contains wherein~~ as a further the additional gloss additive, is selected from the group consisting of the compounds pentyl sulfonate, hexyl sulfonate, heptyl sulfonate, octyl sulfonate, nonyl sulfonate, decyl sulfonate, dodecyl sulfonate, cyclohexyl sulfonate, pentyl sulfate, hexyl sulfate, heptyl sulfate, octyl sulfate, nonyl sulfate, decyl sulfate, dodecyl sulfate, cyclohexyl sulfate or their isomers.

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Claim 4 (currently amended): An electrodeposition bath according to Claim 1, ~~characterised in that, it contains wherein~~ at least one compound of the general formula I is present in an amount of 0.01 to 10 g/l, ~~preferably 0.1 to 5 g/l of a compound of the formula I.~~

Claim 5 (currently amended): ~~Use of the A process for electrodeposition of~~ glossy gold and gold alloy layers, which comprises depositing glossy gold and gold alloy layers using an electrodeposition bath containing gold and at least one gloss additive selected from the group consisting of pyridine-3-sulfonic acid, nicotinic acid, nicotinic acid amide, 3-(3-pyridyl)-acrylic acid, 3-(4-imidazolyl)-acrylic acid, 3-pyridylhydroxymethanesulfonic acid, pyridine, picoline, quinolinesulfonic acid, 3-aminopyridine, 2,3-diaminopyridine, 2,3-di-(2-pyridyl)-pyrazine, 2-(pyridyl)-4-ethanesulfonic acid, 1-(3-sulfopropyl)-pyridinium betaine, 1-(3-sulfopropyl)-isoquinolinium betaine and salts or derivatives thereof, and an additional gloss additive compound of the general formula



in which

m is the number 3 or 4, and

R represents a straight-chain or branched or cyclic alkyl group with up to 20 carbon atoms, ~~and, in the event that $m = 4$, also or~~
an aryl or heteroaryl group with up to 10 carbon atoms, ~~which may~~
~~be~~ optionally substituted once or several times with straight-chain
or branched alkyl groups with 1 to 14 carbon atoms
~~as further gloss additives in acid baths for the electrodeposition of glossy gold and~~
~~gold alloy layers, containing gold and optionally one or more alloy elements in~~
~~the dissolved form and also at least one organic compound as a gloss additive.~~

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Claim 6 (currently amended): A process for the electrodeposition of glossy gold
and gold alloy layers according to claim 5, wherein the electrodeposition occurs
characterised in that, it contains, deposition takes place from a bath in accordance
with Claim 1 at a pH in the range of 3 to 6, preferably 4 to 5.

Claim 7 (new): An electrodeposition bath according to Claim 1, wherein the bath
further comprises one or more alloy elements in dissolved form.

Claim 8 (new): An electrodeposition bath according to Claim 1, wherein the
additional gloss additive contains at least one compound of formula I where R is a
branched alkyl group with 6 to 10 carbon atoms.

Claim 9 (new): An electrodeposition bath according to Claim 1, wherein at least
one compound of general formula I is present in an amount of 0.1 to 5 g/l.

Claim 10 (new): A process for the electrodeposition of glossy gold and gold alloy
layers according to Claim 5, wherein the electrodeposition occurs at a pH in the
range of 4 to 5.

Applicants: Manz *et al.*
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Page 5 (Amendment and Reply to Office Action)

B1
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Claim 11 (new): A process for the electrodeposition of glossy gold and gold alloy layers according to Claim 5, wherein the bath further comprises one or more alloy elements in dissolved form.
